

# **2010 scheme**

**Q.P. Code: 204013**

**Reg. No.:.....**

## **Second Year B.Sc Optometry Degree Supplementary Examinations February 2021 Nutrition & Biochemistry**

**Time: 3 hrs**

**Max marks: 80**

- *Answer all questions to the point neatly and legibly • Do not leave any blank pages between answers • Indicate the question number correctly for the answer in the margin space*
- *Answer all parts of a single question together • Leave sufficient space between answers*
- *Draw table/diagrams/flow charts wherever necessary*

### **Essays**

**(2x15=30)**

1. Define enzymes. Classify enzymes with examples. Add a note on competitive inhibition of enzymes. (1+10+4)
2. Describe the urea cycle. Write about the regulation of urea cycle. Add a note on hyperammonemia (10+ 3+2)

### **Short notes**

**(5x5=25)**

3. Plasma proteins
4. Functions of Iodine and deficiency
5. Protein energy malnutrition
6. Glycogen metabolism
7. Wald's visual cycle

### **Answer briefly**

**(10x2=20)**

8. Ketogenesis
9. Glucose tolerance test
10. Photoreceptor cell
11. Lens composition
12. Significance of HMP shunt pathway
13. Immunoglobulins
14. Vitamin K deficiency
15. Primary structure of proteins
16. Antioxidant vitamins
17. Obstructive jaundice

### **Give precise answer**

**(5x1=5)**

18. Name two sulphur containing amino acids
19. Name two water soluble vitamins
20. Normal blood glucose levels
21. Energy value of lipids
22. Storage form of iron in the body

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